



Mohammed Mofizur Rahman

Scientist, Climate Resilience

Potsdam Institute for Climate Impact Research (PIK), Germany

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Date of Birth: 09-04-1981 | Marital Status: Married

Nationality: Bangladeshi | Profession: Researcher and Educator

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Profile: I am an Environmental Scientist from Bangladesh and affiliated with Potsdam Institute for Climate Impact Research (PIK), Germany. Currently, I am working on a German Ministry for Education and Research (BMBF) funded project on *water and health nexus assessment in rural Bangladesh*. I have more than 10 years of research experience on several issues centred on water and climate change. DFID funded *water salinity and hypertension study in coastal Bangladesh* is one my pioneering work. I look at water from a social-ecological system point of view and broadly interested in water security in the river deltas.

Research Focus: Climate Change and Health, Water Related Ecosystem Service, Water Security, Nature Based Solutions to Coastal Hazards, Climate Risk and Vulnerability Assessment.

Skills: University-level teaching, proposal and report writing, Interpersonal communication, Qualitative content analysis, Longitudinal household survey, Statistics (With R and Excel), Spatial analysis (GIS), Literature review, Bibliometric analysis (VOSviewer), Microsoft Office, Poster design (with Adobe Illustrator).

Academic Qualification

Year(s)	Programme	Institute
2019	Alexander von Humboldt Climate Protection Fellow	Alexander von Humboldt Foundation, Bonn, Germany.
2013	Behrs Environmental Leadership Fellow	University of California Berkeley, USA (Funded by College of Natural Resources, UCB).
2008	Post Graduate Diploma on Sustainable Development	IIIT Madras, India and EPFL Switzerland.
2008-2010	European M.Sc. in Marine Biodiversity Conservation (Score: 726/ 1000 with <i>Distinction</i>)	Ghent University, Belgium (100% Erasmus Mundus Scholarship from EU).
2000-2005	B.Sc. in Environmental Science (Score: 3.51 /4)	Life Science School, Khulna University, Bangladesh.

Work Experience (*Details in the Project Involvement*)

Year(s)	Designation (Research Theme)	Institute
2022	Scientist (Water and Health)	Potsdam Institute for Climate Impact Research (PIK), Germany
2020-2021	Research Associate (<i>River delta management</i>)	Cologne University of Applied Sciences.
2014-2018	Research Investigator (<i>Planetary Health</i>)	ICDDR, Bangladesh.

2013-2014	Researcher (<i>Dried fish and Food Security</i>)	World Fish South Asia Office.
2012-2013	Research Officer (<i>Climate Adaptation</i>)	Bangladesh Center for Advance Studies.
2011	Intern	Stockholm Resilience Center, Sweden.

Teaching

Year(s)	Title of the Course	Institute
2020-21	Climate Change Impact and Vulnerability	Anant National University, India.
2021 Winter	Module Scientific Work (MSW)	Cologne University of Applied Sciences, Germany.
2018 Fall	Technology, Environment and Society	Islamic University of Technology (IUT), Bangladesh.

Project Involvement

Year(s)	Role	Name of the Project and Funding Agency
2021	External Collaborator	SNF-funded project on Climate Risk, Land Loss, and Migration: Evidence from a Quasi-Experiment in Bangladesh
2021	Coordinator	DAAD funded Water-Food-Energy Summer School
2018-21	Team Member	DECIMALS-funded project on evaluating health impacts of solar radiation management in a risk-risk framework in Bangladesh.
2017-21	External Collaborator	University of Notre Dame funded project Attributing Environmental Drivers of Health Challenges in Coastal Bangladesh
2018	Co-Investigator	USAID funded project Air Quality and Pregnancy outcome in Dhaka, Bangladesh
2014-17	Co-Investigator	DFID and NERC UK funded project on Ecosystem services for poverty alleviation in Deltas (ESPA Deltas)

Publications

Lead authored paper

Rahman, M. M., Penny, G., Mondal, M. S., Zaman, M. H., Kryston, A., Salehin, M., Nahar, Q., Islam, M. S., Bolster, D., Tank, J. L. y Müller, M. F. (2019). Salinization in large river deltas: Drivers, impacts and socio-hydrological feedbacks. *Water Security*, 6(5), 100024. <https://doi.org/10.1016/j.wasec.2019.100024>

Rahman, M. M., Ahmad, S., Mahmud, A. S., Hassan-uz-Zaman, M., Nahian, M. A., Ahmed, A., Nahar, Q., & Streatfield, P. K. (2019). Health consequences of climate change in Bangladesh: An overview of the evidence, knowledge gaps and challenges. *Wiley Interdisciplinary Reviews: Climate Change*, 10(5), e601. <https://doi.org/10.1002/wcc.601>

Masters Thesis

Gutow, L., **Rahman, M. M.**, Bartl, K., Saborowski, R., Bartsch, I., & Wiencke, C. (2014). Ocean acidification affects growth but not nutritional quality of the seaweed *Fucus vesiculosus* (*Phaeophyceae*, *Fucales*). *Journal of Experimental Marine Biology and Ecology*, 453, 84–90. <https://doi.org/10.1016/j.jembe.2014.01.005>

Co-authored paper

Adams, H., Adger, W. N., Ahmad, S., Ahmed, A., Begum, D., Lázár, A. N., Matthews, Z., **Rahman, M. M.**, & Streatfield, P. K. (2016). Spatial and temporal dynamics of multidimensional well-being, livelihoods and ecosystem services in coastal Bangladesh. *Scientific Data*, 3, 160094. <https://doi.org/10.1038/sdata.2016.94>

Adams, H., Adger, W. N., Ahmad, S., Ahmed, A., Begum, D., Matthews, Z., **Rahman, M. M.**, Nilsen, K., Gurney, G. G., Streatfield, P. K. (2020). Multi-dimensional well-being associated with economic dependence on ecosystem services in deltaic social-ecological systems of Bangladesh. *Regional Environmental Change*, 20(2), 160094. <https://doi.org/10.1007/s10113-020-01620-x>

Pre-print

Carlson, C. J., Colwell, R., Hossain, M. S., **Rahman, M. M.**, Robock, A., Ryan, S. J., Alam, M. S., & Trisos, C. H. (2020). Solar geoengineering could redistribute malaria risk in developing countries (Vol. 45). <https://doi.org/10.1101/2020.10.21.20217257>

Book Chapter

Shammi, M., Rahman, M. M., **Rahman, M. M.** (2021). Desalination Technology for Water Security. In M. I. Ahamed, & E. Lichtfouse (Eds.), *Environmental Chemistry for a Sustainable World. Water Pollution and Remediation: Heavy Metals* (Vol. 53, pp. 147–176). Springer International Publishing. https://doi.org/10.1007/978-3-030-52421-0_6

Rahman, M. M., & Ahmad, S. (2018). Health, Livelihood and Well-Being in the Coastal Delta of Bangladesh. In R. J. Nicholls, C. W. Hutton, W. N. Adger, S. E. Hanson, M. M. Rahman, & M. Salehin (Eds.), *Ecosystem Services for Well-Being in Deltas* (Vol. 23, pp. 131–145). Springer International Publishing. https://doi.org/10.1007/978-3-319-71093-8_7

Keune, H., Subramanian, S. M., Payyappallimana, U., Ahmad, S., **Rahman, M. M.**, Azam, M. N., Sebesvari, Z., Spangenberg, J. H., Morand, S., Kretsch, C., Martens, P., & Wittmer, H. (2017). Biodiversity ecosystems and human health. In S. Morand, C. Lajaunie, & R. Satrawaha (Eds.), *Biodiversity Conservation in Southeast Asia* (pp. 250–280). Routledge. <https://doi.org/10.4324/9781315313573-13>

Adams, H., Adger, W. N., Ahmad, S., Ahmed, A., Begum, D., Chan, M., Lázár, A. N., Matthews, Z., **Rahman, M. M.**, & Streatfield, P. K. (2018). Characterising Associations between Poverty and Ecosystem Services. In R. J. Nicholls, C. W. Hutton, W. N. Adger, S. E. Hanson, M. M. Rahman, & M. Salehin (Eds.), *Ecosystem Services for Well-Being in Deltas* (Vol. 3, pp. 425–444). Springer International Publishing. https://doi.org/10.1007/978-3-319-71093-8_23

Report

Streatfield, P.K., Nahar, Q., Nahian, M.A., **Rahman, M.M.**, Chakraborty, N. (2019): Poor Air Quality and Pregnancy Outcome in Dhaka, Bangladesh. International Centre for Diarrhoeal Disease Research, Bangladesh Publishing. <https://doi.org/10.13140/RG.2.2.25760.12805>

Poster

Clarke, D., Salehin, M., Jahiruddin, M., Saleh, A., Rahman, M., **Rahman, M.M.**, Parks, K., Haque, M.A., Lazar, A. N., Payo, A.,(2015) Salinity impacts on Agriculture and groundwater in delta regions. American Geophysical Union Fall Meeting. San Francisco, USA

Bartsch, I., Gutow, L., Olischläger, M., **Rahman, M.M.**, Roleda, M., Sarker, Y., Saborowski, R., Wiencke, C., Asmus, R., Asmus, H., Hanelt D. (2010). Ocean acidification effects on growth, photosynthesis and trophic status of seaweeds. BIOACID/ EPOCA/ UKOARP meeting, 27-30 September. Bremerhaven, Germany

Newspaper and Magazine Articles

Nambiar, V., Abraham, S., **Rahman, M.M.** (2020). Unpacking climate geoengineering. *The Pioneer*. December 13. Available at: <https://www.dailypioneer.com/2020/sunday-edition/unpacking-climate-geoengineering.html> (accessed at: 17 April 2021)

Gain, A., Sadik, S., **Rahman M. M.** (2020). সাগরপারের এলাকা কি বিলীন হয়ে যাবে? (Translation: Future of coastal zone of Bengal Delta. Will it disappear?). Daily Prothom Alo. September 6. Available at: shorturl.at/invA3. (Access at: 17 April 2021)

Rahman, M. M., & Ahmad, S. (2016). South Asia's vulnerable marine and coastal ecosystems. In book: Trade Insight. Editors: H. Uprety, A. Subedi, D. Singh. Edition: Volume 12, Chapter 4. Impact Publisher: SAWTEE. Available at: www.sawtee.org.

Rahman, M. M. (2014). Argument: Urgent Need for Refocusing on the Non-climatic Drivers of Water Crises. In book: PIPES, Asia Pacific Youth Journal on Water. Edition: Volume 2, Pages 63-66. Publisher: Korea Water Forum. Available at: <http://www.koreawaterforum.org>

Interview

Rahman, M.M. (2020). সাগরপারের এলাকা কি বিলীন হয়ে যাবে? (Translation: Future of coastal zone of Bengal Delta. Will it disappear?). Daily Prothom Alo. September 21. Available at: https://fb.watch/4VUPlk3_v1/. (Access at: 17 April 2021)

Master Thesis presentation

Rahman, M.M (2010): Seaweed and herbivory in acidified ocean. Available at: <https://vimeo.com/16274602>

Membership

Bangladesh Poribeshbid Society

European Geoscience Union, EGU ID 608151

Erasmus Mundus Alumni Association

Young Ecosystem Services Specialists

Language

English: (Proficient in reading, writing and speaking)

Bengali: Mother Tongue

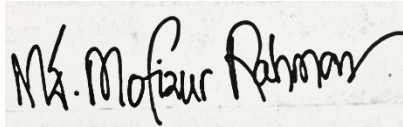
German: Basic

References

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Mohammed Mofizur Rahman
Köln, Germany

A handwritten signature in black ink on a light-colored background. The signature reads "M. Mofizur Rahman" in a cursive script.